Abstract

A method of merging a first data stream with a second data stream to generate a third data stream. The method comprises receiving a first packet from the first data stream, the first packet containing a first packet ID and a first data payload and receiving

5   a second packet from the second data stream, the second packet containing a second packet ID and a second data payload. The method also includes storing first data in a plurality of packet ID arrival registers, a first portion of the first data indicating that the first packet ID is equal to the ID associated with a first of the plurality of the packet ID arrival registers and storing second data in the plurality of packet ID arrival registers, a

10   first portion of the second data indicating that the second packet ID is equal to the ID associated with the second of the plurality of the packet ID arrival registers. The method further includes calculating a first autocorrelation vector; calculating a second autocorrelation vector; and based at least in part upon a comparison of the magnitude of the first autocorrelation vector and the magnitude of the second autocorrelation vector,

15   including the first packet in the third data stream.